



Name _____ Date _____

Practice: For use after Lesson 3.2, Algebra 2 with Trigonometry

Relations and Functions

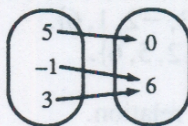
Write a rule for each relation and state its domain and range.

1. $\{(2, 3), (0, 1), (-4, -3)\}$

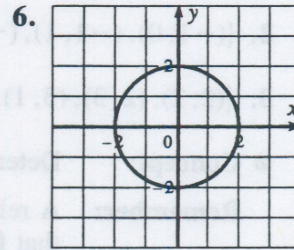
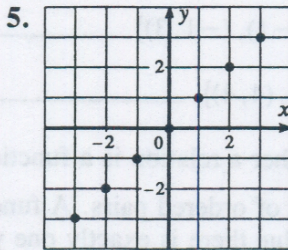
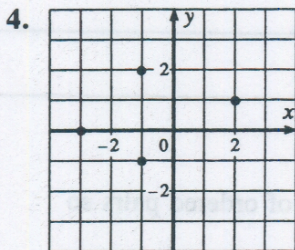
Determine which, if any, of the following relations are functions.

2. $C = \{(-1, 3), (5, -2), (-1, 0)\}$

3. _____



Use the vertical line test to determine which of the graphs are functions.



Make a mapping diagram for the relation and determine whether or not it is a function.

7. $\{(2, 1), (-1, 3), (2, 4), (0, -1)\}$ _____

Application

8. **Shopping** Norma needed some notebooks for her school work. She noticed that the length of each notebook was 3 in. more than the width. If the notebook came in widths of 3 in., 6 in., and 9 in., write a rule for this relation. Determine if this relation is a function. _____

MIXED PRACTICE

The ordered pair (x, y) represents a point in a coordinate plane. Name the quadrant or axis that satisfies the given condition.

9. x is negative and y is negative. _____
10. x is zero and y is positive. _____